

Amendments to the Claims

1. (Currently Amended) A color cathode ray tube comprising:
a panel of which an outer surface is substantially plane and an inner surface has a predetermined curvature; and
a mask for selecting colors of electron beams incident from inside of the panel,
in which a formula, $0.3 \leq (R_{xe}/R_{xc}) \leq 0.75$ is satisfied,
wherein the R_{xe} is an inner curvature radius at an edge of a long axis of the panel, and the R_{xc} is an inner curvature radius at a center of a long axis of the panel.

2. (Original) The color cathode ray tube of claim 1, wherein the inner curvature radius is gradually decreased from a center portion of the panel towards a peripheral portion of the panel.

3. (Original) The color cathode ray tube of claim 1, wherein the mask is formed of AK material.

4. (Currently Amended) ~~The color cathode ray tube of claim 1,~~
A color cathode ray tube comprising:

a panel of which an outer surface is substantially plane and an inner surface has a predetermined curvature; and

a mask for selecting colors of electron beams incident from inside of the panel,

in which a formula, $0.3 \leq (R_{xe}/R_{xc}) \leq 0.75$ is satisfied,

wherein R_{xe} is an inner curvature radius at an edge of a long axis of the panel, and R_{xc} is an inner curvature radius at a center of a long axis of the panel,

wherein a formula, $4.5 \leq (R_{xc}/USD) \leq 8.5$ is satisfied, and

wherein the USD is a diagonal size of an effective surface of the panel.

5. (Canceled)

6. (Currently Amended) The color cathode ray tube of claim 1,

wherein a USD of the panel is 500mm or less ~~[[than]]~~, and

wherein the USD is a diagonal size of an effective surface of the panel.

7. (Currently Amended) ~~The color cathode ray tube of claim 1;~~

A color cathode ray tube comprising:

a panel of which an outer surface is substantially plane and an inner surface has a predetermined curvature; and

a mask for selecting colors of electron beams incident from inside of the panel,

in which a formula, $0.3 \leq (R_{xe}/R_{xc}) \leq 0.75$ is satisfied,

wherein R_{xe} is an inner curvature radius at an edge of a long axis of the panel, and R_{xc} is an inner curvature radius at a center of a long axis of the panel, and

wherein a transmission ratio of a center portion of the panel is 45%~75%.

8. (Currently Amended) ~~The color cathode ray tube of claim 1,~~

A color cathode ray tube comprising:

a panel of which an outer surface is substantially plane and an inner surface has a predetermined curvature; and

a mask for selecting colors of electron beams incident from inside of the panel,

in which a formula, $0.3 \leq (R_{xe}/R_{xc}) \leq 0.75$ is satisfied,

wherein R_{xe} is an inner curvature radius at an edge of a long axis of the panel, and R_{xc} is an inner curvature radius at a center of a long axis of the panel, and

wherein an wedge ratio is 180%~220%.

9. (Original) The color cathode ray tube of claim 1, wherein the mask is formed of either Fe-Ni based alloy or Fe-Ni-Co based alloy.

10. (Canceled)

11. (Currently Amended) ~~The color cathode ray tube of claim 9;~~

A color cathode ray tube comprising:

a panel of which an outer surface is substantially plane and an inner surface has a predetermined curvature; and

a mask for selecting colors of electron beams incident from inside of the panel,

in which a formula, $0.3 \leq (R_{xe}/R_{xc}) \leq 0.75$ is satisfied,

wherein R_{xe} is an inner curvature radius at an edge of a long axis of the panel, and R_{xc} is an inner curvature radius at a center of a long axis of the panel,

wherein the mask is formed of either Fe-Ni based alloy or Fe-Ni-Co based alloy,

wherein a formula, $4.5 \leq (R_{xc}/USD) \leq 6.5$ is satisfied, and
wherein USD is a diagonal size of an effective surface of the panel.

12. (Currently Amended) The color cathode ray tube of claim 9,
wherein a USD of the panel is 500mm or less than, and
wherein USD is a diagonal size of an effective surface of the panel.

13. (Currently Amended) ~~The color cathode ray tube of claim 9;~~
A color cathode ray tube comprising:
a panel of which an outer surface is substantially plane and an inner
surface has a predetermined curvature; and
a mask for selecting colors of electron beams incident from inside of the
panel,
in which a formula, $0.3 \leq (R_{xe}/R_{xc}) \leq 0.75$ is satisfied,

wherein R_{xe} is an inner curvature radius at an edge of a long axis of the
panel, and R_{xc} is an inner curvature radius at a center of a long axis of the
panel,
wherein the mask is formed of either Fe-Ni based alloy or Fe-Ni-Co based
alloy,
wherein an a wedge ratio is 200% or more than.

14. (Currently Amended) ~~The color cathode ray tube of claim 1;~~

A color cathode ray tube comprising:

a panel of which an outer surface is substantially plane and an inner surface has a predetermined curvature; and

a mask for selecting colors of electron beams incident from inside of the panel,

in which a formula, $0.3 \leq (R_{xe}/R_{xc}) \leq 0.75$ is satisfied,

wherein R_{xe} is an inner curvature radius at an edge of a long axis of the panel, and R_{xc} is an inner curvature radius at a center of a long axis of the panel,

wherein a formula, $R_{xe} \leq R_{de} \leq R_{ye}$ is satisfied,

wherein ~~the R_{xe} is an inner curvature radius at an edge of a long axis of the panel,~~ the R_{ye} is an inner curvature radius at an edge of a short axis of the panel, and ~~the~~ R_{de} is an inner curvature radius at an edge of a diagonal axis of the panel.

15. (Currently Amended) ~~The color cathode ray tube of claim 2;~~

A color cathode ray tube comprising:

a panel of which an outer surface is substantially plane and an inner surface has a predetermined curvature; and

a mask for selecting colors of electron beams incident from inside of the panel,

in which a formula, $0.3 \leq (R_{xe}/R_{xc}) \leq 0.75$ is satisfied,

wherein R_{xe} is an inner curvature radius at an edge of a long axis of the panel, and R_{xc} is an inner curvature radius at a center of a long axis of the panel.

wherein the inner curvature radius is gradually decreased from a center portion of the panel towards a peripheral portion of the panel,

wherein a formula, $R_{xe} \leq R_{de} \leq R_{ye}$ is satisfied,

wherein the R_{xe} is an inner curvature radius at an edge of a long axis of the panel, the R_{ye} is an inner curvature radius at an edge of a short axis of the panel, and the R_{de} is an inner curvature radius at an edge of a diagonal axis of the panel.

16. (Currently Amended) The color cathode ray tube of claim 7, wherein a formula, $R_{xe} \leq R_{de} \leq R_{ye}$ is satisfied,

wherein the R_{xe} is an inner curvature radius at an edge of a long axis of the panel, and the R_{ye} is an inner curvature radius at an edge of a short axis of

~~the panel, and~~ Rde is an inner curvature radius at an edge of a diagonal axis of the panel.

17. (Currently Amended) ~~The color cathode ray tube of claim 1,~~
~~A color cathode ray tube comprising:~~
~~a panel of which an outer surface is substantially plane and an inner~~
~~surface has a predetermined curvature; and~~
~~a mask for selecting colors of electron beams incident from inside of the~~
~~panel,~~
in which a formula, $0.3 \leq (R_{xe}/R_{xc}) \leq 0.75$ is satisfied,

~~wherein Rxe is an inner curvature radius at an edge of a long axis of the~~
~~panel, and Rxc is an inner curvature radius at a center of a long axis of the~~
~~panel,~~
wherein a formula $0.3 \leq (R_{ye}/R_{yc}) \leq 0.5$ is satisfied, and
wherein the Rye is an inner curvature radius at a center ~~an edge~~ of a short axis of the panel, and the Ryc is an inner curvature radius at a center of a short axis of the panel.